DECLARATION AND POWER OF 42P19016 Attorney Docket Number ATTORNEY FOR PATENT APPLICATION First Named Inventor Shriram Ramanathan (37 CFR 1.63) **COMPLETE IF KNOWN Application Number** Declaration Declaration Filing Date Submitted after Initial Submitted Art Unit Filing (surcharge with Initial (37 CFR 1.16(e)) Filling **Examiner Name** required) As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below, next to my name. I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: THERMOELECTRIC NANO-WIRE DEVICES (Title of the Invention) the specification of which is attached hereto. OR was filed on (if applicable): as United States Application Number **PCT International Application Number** (if applicable) and was amended on I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between

Docket No. 42P19016

continuation-in-part application.

-1-

the filing date of the prior application and the national or PCT international filing date of the

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Prior	Foreign	Applic	ation(s)
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Direct all corre	espondence to:	Customer Nu	mber	08791	or 🔲 🤇	Corresponde	ence address below
Name	Blakely, Sokoloff,	Taylor & Zafman I	LP				
Address	12400 Wilshire Bo	ulevard, 7th Floor					
City	Los Angeles		State	California		Zip Code	90025
Country		Те	lephone	(503) 684-6200		Fax	(503) 684-3245
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Docket No. 42P19016

INLET

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IAME OF SECOND	INVENTOR: A petition has t	peen filed for this undersi	gned inventor
Full Name:	Greg	gory M. Chrysler	<u> </u>
		ily Name (or Surname), and Su	ffix [if any])
nventor's Signature		Date	
Residence Chan	dler, Arizona USA	Citizenship US	
Y	(City, State, Country)		(Country)
Mailing Address	411 N. Diane Ct.		
	Chandler, Arizona 85226 USA		
IAME OF THIRD II		been filed for this undersi	gned inventor
Full Name:	(First Middle lif anyl, Fam	ily Name (or Surname), and Su	iffix [if anv])
nventor's Signature	(Prist, Middle fig dhy), 1 dm		95 [991/
inventor a digitature			
Residence		Citizenship	
	(City, State, Country)		(Country)
Mailing Address			
Full Name:			
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Inventor's Signature	2	Date	
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Residence	(City, State, Country)	Citizenship	(Country)
Mailing Address	(City , Diane, Country)		(22))
Walling Address			
NAME OF FIFTH II	NVENTOR:	been filed for this unders	igned inventor
Full Name:			
*	(First, Middle [if any], Fan	nily Name (or Surname), and S	uffix [if any])
Inventor's Signature	e	Date	
Residence		Citizenship	
	(City, State, Country)		(Country)
Mailing Address			
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Docket No. 42P19016		3-	

Docket No. 42P19016

Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: Raj V. Abhyanker, Reg. No. 45,474; William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Vincent H. Anderson, Reg. No. 54,962; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Elena B. Dreszer, Reg. No. 55,128; Sanjeet Dutta, Reg. No. 46,145; Nathan P. Elder, Reg. No. 55,150; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; Jason R. Graff, Reg. No. 54,134; Arlen M. Hartounian, Reg. No. 52,997; Jeffery Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Aslam A. Jaffery, Reg. No. 51,841; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Mark A. Kupanoff, Reg. No. 55,349; Steven Laut, Reg. No. 47,736; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan Carol Little-Washington, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg. No. 50,432; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. 52,107; Marina G. Portnova, Reg. No. 45,750; Jon C. Reali, Reg. No. 54,391; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. 52,291; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Mark R. Vatuone, Reg. No. 53,719; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; Chui-Kiu Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250, my patent attorneys, and Chze Koon Chua, 53,831; Brent Vecchia, Reg. No. 48,011 and Lehua Wang, Reg. No. 48,023, my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800; and James R. Thein, Reg. No. 31,710, my patent attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494: Michael R. Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Rahul D. Engineer, Reg. No. 47,548; Cynthia Thomas Faatz, Reg. No. 39,973; James S. Finn, Reg. No. 38,450; Sanjay S. Gadkari, Reg. No. 55,796; Christopher K. Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert A. Greenberg, Reg. No. 44,133; Bradley A. Greenwald, Reg. No. 34,341; David L. Guglielmi, Reg. No. 55,229; Robert D. Hinchliffe, Reg. No. 55,268; Jeffrey B. Huter, Reg. No. 41,086; B. Delano Jordan, Reg. No. 43,698; Seth Z. Kalson, Reg. No. 40,670; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony M. Martinez, Reg. No. 44,223; Larry Mennemeier, Reg. No. 51,003; Molly A. Mccall, Reg. No. 46,126; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Kathy J. Ortiz, Reg. No. 54,351; Lanny L. Parker, Reg. No. 44,281; Cathy L. Peterson, Reg. No. 41,249; Michael D. Plimier, Reg. No. 43,004; Michael A. Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell C. Scott, Reg. No. 43,103; Justin B. Scout, Reg. No. 54,431; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Hom, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Kerry D.Tweet, Reg. No. 45,959; Stuart A. Whittington, Reg. No. 45,215; Robert G. Winkle, Reg. No. 37,474; Rita M. Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; Steven D. Yates, Reg. No. 42,242; Calvin E. Wells; Reg. No. 43,256; and Charles K. Young, Reg. No. 39,435; my patent attorneys and my patent agents, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION			Attorney Docket Number 42P19016		
			First Named Inventor	Shriram Ramanathan	
(37 CFR 1.63)		COMPLETE IF KNOWN			
			Application Number		
Declaration Submitted	ted OR Submitted after initial	Filing Date			
with Initial		Art Unit			
Filing		Examiner Name			

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

THERMOELECTRIC NANO-WIRE DEVIC	ES
(Title of the Invention)	
the specification of which	
☑ is attached hereto.	·
OR	
was filed on (if applicable):	
or as United States Application Number PCT International Application Number	
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

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I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior	Foreign	Applic	ation(s)	ŀ

	n Application(s):			Ia i au a i			
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					1		☐Yes ☐No
							☐Yes ☐No
this docum revocation, Office conr	nent) as my respondent, to prosecute thin nected herewith.	is listed on Appen ective patent attor is application and	neys a to tran	ind patent agents, isact all business	with ful in the U	I power of .S. Patent	substitution and and Trademark
Direct all cor	rrespondence to:	Customer Num	nber	08791	or []	Corresponde	ince address below
Name	Blakely, Sokoloff,	Taylor & Zafman Ll	LP_				
Address	12400 Wilshire B	oulevard, 7th Floor					
City	Los Angeles		State	California		Zip Code	90025
Country		Tele	phone	(503) 684-6200		Fax	(503) 684-3245
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NAME OF	SOLE OR FIRST	I INVENTOR:	Ap	etition has been fil	ed for th	nis undersiç	gned inventor
Full Name:				Shriram Ramanath	_		
		(First, Middle [if any],	Family Name (or Surr	-	d Suffix [if an	v <i>1)</i>
Inventor's S	Signature	-,		Dat	• <u> </u>		
Residence	Hillsbaro, Oreg	gon USA		Citize	nship	India	
		(City, State, Country	<i>)</i>				(Country)
Mailing Ado	dress 7065 NE	Ronler Way, #1225					

Hillsboro, Oregon 97124 USA

NAME OF SECOND INVENT	OR: A petition has b	een filed for this undersign	ned inventor
Full Name:		ory M. Chrysler	
Inventor's Signature	(First, Middle [if pny], Family Velegay W. Chrysle	y Name (or Surname), and Suffi Date	* [if any]) May 2004
Residence Chandler, Arizon		Citizenship USA	
Malling Address 411 N. Dia	City , State, Country) ne Ct. Arizona 85226 USA		(Country)
NAME OF THIRD INVENTOR	: A petition has b	een filed for this undersigr	ned inventor
Full Name:			
Inventor's Signature	(First, Middle [if any], Family	y Name (or Surname), and Suffi. Date	(if any])
Residence	City, State, Country)	Citizenship	(Country)
Mailing Address			
NAME OF FOURTH INVENTO	CAR: A petition has be	een filed for this undersign	ed inventor
Inventor's Signature	(First, Middle [if any], Family	Name (or Swname), and Suffic	: [if any])
inventor's signature		Date	- A1411
Residence	ity , State, Country)	Citizenship	(Country)
Mailing Address			(Country)
NAME OF FIFTH INVENTOR:	☐ A petition has be	en filed for this undersign	ed inventor
Full Name:	(T) - 1011 FIG. 2 TO 11		
Inventor's Signature	(First, Middle [if any], Family	Name (or Surname), and Suffice Date	(if any])
Residence		Citizenship	
Mailing Address	ity , State, Country)		(Country)
Docket No. 42/219016	.7		

Appendix A

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No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. 52,107; Marina G. Portnova, Reg. No. 45,750; Jon C. Reali, Reg. No. 54,391; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. 52,291; Mark C. Van Ness, Reg. No. 39,885; Thomas A. Van Zandt, Reg. No. 43,219; Mark R. Vatuone, Reg. No. 53,719; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 48,154; Chui-Kiu Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 28,250, my patent attorneys, and Chze Koon Chua, 53,831; Brent Vecchia, Reg. No. 48,011 and Lehua Wang, Reg. No. 48,023, my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800; and James R. Thein, Reg. No. 31,710, my patent attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael R. Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,764; Ben Burge, Reg. No. 42,372; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Dræger, Reg. No. 41,000; Rahul D. Engineer, Reg. No. 47,548; Cynthia Thomas Faatz, Reg. No. 39,973; James S. Finn, Reg. No. 38,450; Sanjay S. Gadkarl, Reg. No. 55,796; Christopher K. Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert A. Greenberg, Reg. No. 44,133; Bradley A. Greenwald, Reg. No. 34,341; David L. Guglielmi, Reg. No. 55,229; Robert D. Hinchliffe, Reg. 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